

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/576,491
Source: IRWP
Date Processed by STIC: 5-1-06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,491

TIME: 10:57:25

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

```

3 <110> APPLICANT: Wu, Wenping
4      Jokumsen, Kirsten Vaever
5      Stringer, Mary Ann
7 <120> TITLE OF INVENTION: Trypsin like protease
9 <130> FILE REFERENCE: 10178.204-US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/576,491
C--> 11 <141> CURRENT FILING DATE: 2006-04-18
11 <160> NUMBER OF SEQ ID NOS: 5
13 <170> SOFTWARE: PatentIn version 3.3
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 1004
17 <212> TYPE: DNA
18 <213> ORGANISM: Fusarium solani
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (52)..(804)
25 <220> FEATURE:
26 <221> NAME/KEY: mat_peptide
27 <222> LOCATION: (127)..(804)
28 <223> OTHER INFORMATION: 52-102: signal peptide and 103-126: pro-peptide
30 <400> SEQUENCE: 1
31 ctcttcactc ttcaactctc tactcttgga atcccctgtc tgctcttcac c atg gtc      57
32                                     Met Val
33                                     -25
35 aag ttt gct gcc atc ctc gca ctt gtt gcg cct ctt gtc gcc gct cgg      105
36 Lys Phe Ala Ala Ile Leu Ala Leu Val Ala Pro Leu Val Ala Ala Arg
37      -20      -15      -10
39 cct cag gac tca tca ccc atg atc gtt ggt gga act gct gcc agc gct      153
40 Pro Gln Asp Ser Ser Pro Met Ile Val Gly Gly Thr Ala Ala Ser Ala
41      -5      -1 1      5
43 ggt gac ttc ccc ttc atc gtc agc atc gcc tac aat ggt ggc cct tgg      201
44 Gly Asp Phe Pro Phe Ile Val Ser Ile Ala Tyr Asn Gly Gly Pro Trp
45 10      15      20      25
47 tgc gga ggt acc ctc ctc aac gcc aac acc gtc atg act gct gcc cac      249
48 Cys Gly Gly Thr Leu Leu Asn Ala Asn Thr Val Met Thr Ala Ala His
49      30      35      40
51 tgc acc caa ggt cgc tct gct agc gcc ttc cag gtc cgc gcc gga agt      297
52 Cys Thr Gln Gly Arg Ser Ala Ser Ala Phe Gln Val Arg Ala Gly Ser
53      45      50      55
55 ctg aac cgc aac tcg ggt ggt gtt acc tct tcc gtt tct tcc atc agg      345
56 Leu Asn Arg Asn Ser Gly Gly Val Thr Ser Ser Val Ser Ser Ile Arg
57      60      65      70
59 atc cat cct agc ttc agt agc tcg acc ctg aac aac gat gtt tcc atc      393

```

RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,491

TIME: 10:57:25

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

```

60 Ile His Pro Ser Phe Ser Ser Ser Thr Leu Asn Asn Asp Val Ser Ile
61      75                      80                      85
63 ctg aag ctg tcc acc ccc atc tcg act agc tcc act att tct tat ggt      441
64 Leu Lys Leu Ser Thr Pro Ile Ser Thr Ser Ser Thr Ile Ser Tyr Gly
65 90                      95                      100                      105
67 cgc ctg gct gcg tcg ggc tct gac cct gtt gcc ggc tct gat gcc aca      489
68 Arg Leu Ala Ala Ser Gly Ser Asp Pro Val Ala Gly Ser Asp Ala Thr
69                      110                      115                      120
71 gtt gct ggc tgg ggt gtc act tct cag ggc tct tcc agc tct ccc gtg      537
72 Val Ala Gly Trp Gly Val Thr Ser Gln Gly Ser Ser Ser Ser Pro Val
73                      125                      130                      135
75 gct ttg agg aag gtt acc att ccc atc gtc tcc cgc acc act tgc cga      585
76 Ala Leu Arg Lys Val Thr Ile Pro Ile Val Ser Arg Thr Thr Cys Arg
77                      140                      145                      150
79 tcc cag tat ggc act tct gcc atc acc acc aac atg ttc tgc gct ggt      633
80 Ser Gln Tyr Gly Thr Ser Ala Ile Thr Thr Asn Met Phe Cys Ala Gly
81      155                      160                      165
83 ctt gct gag ggt ggt aag gac tct tgc cag ggc gac agc ggc ggt ccc      681
84 Leu Ala Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro
85 170                      175                      180                      185
87 att gtc gat acc tcc aac act gtc att ggc att gtt tct tgg ggt gag      729
88 Ile Val Asp Thr Ser Asn Thr Val Ile Gly Ile Val Ser Trp Gly Glu
89                      190                      195                      200
91 ggt tgt gct cag ccc aac tta tct ggt gtc tat gcc cga gtt gga tct      777
92 Gly Cys Ala Gln Pro Asn Leu Ser Gly Val Tyr Ala Arg Val Gly Ser
93                      205                      210                      215
95 ctc cgc act tac atc gac ggc cag ctg taaattgctc ggtcggttgg      824
96 Leu Arg Thr Tyr Ile Asp Gly Gln Leu
97      220                      225
99 tttacatttc tgttctaggc agtttgcttg tcagagactt ttgttgagat ggggacggaa      884
101 gatggagtag gaatgctgag agtgtttggt tgagagttaa gttgatagtc aagatccaag      944
103 tcccggttgg ccatgcactg gcaactcgag cgactagatt ctcaataaaa ttgttcgtgg      1004
106 <210> SEQ ID NO: 2
107 <211> LENGTH: 251
108 <212> TYPE: PRT
109 <213> ORGANISM: Fusarium solani
111 <400> SEQUENCE: 2
113 Met Val Lys Phe Ala Ala Ile Leu Ala Leu Val Ala Pro Leu Val Ala
114 -25                      -20                      -15                      -10
117 Ala Arg Pro Gln Asp Ser Ser Pro Met Ile Val Gly Gly Thr Ala Ala
118                      -5                      -1 1                      5
121 Ser Ala Gly Asp Phe Pro Phe Ile Val Ser Ile Ala Tyr Asn Gly Gly
122      10                      15                      20
125 Pro Trp Cys Gly Gly Thr Leu Leu Asn Ala Asn Thr Val Met Thr Ala
126      25                      30                      35
129 Ala His Cys Thr Gln Gly Arg Ser Ala Ser Ala Phe Gln Val Arg Ala
130 40                      45                      50                      55
133 Gly Ser Leu Asn Arg Asn Ser Gly Gly Val Thr Ser Ser Val Ser Ser
134                      60                      65                      70

```

RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,491

TIME: 10:57:25

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

```

137 Ile Arg Ile His Pro Ser Phe Ser Ser Ser Thr Leu Asn Asn Asp Val
138           75                      80                      85
141 Ser Ile Leu Lys Leu Ser Thr Pro Ile Ser Thr Ser Ser Thr Ile Ser
142           90                      95                      100
145 Tyr Gly Arg Leu Ala Ala Ser Gly Ser Asp Pro Val Ala Gly Ser Asp
146           105                     110                     115
149 Ala Thr Val Ala Gly Trp Gly Val Thr Ser Gln Gly Ser Ser Ser Ser
150 120           125                     130                     135
153 Pro Val Ala Leu Arg Lys Val Thr Ile Pro Ile Val Ser Arg Thr Thr
154           140                     145                     150
157 Cys Arg Ser Gln Tyr Gly Thr Ser Ala Ile Thr Thr Asn Met Phe Cys
158           155                     160                     165
161 Ala Gly Leu Ala Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly
162           170                     175                     180
165 Gly Pro Ile Val Asp Thr Ser Asn Thr Val Ile Gly Ile Val Ser Trp
166           185                     190                     195
169 Gly Glu Gly Cys Ala Gln Pro Asn Leu Ser Gly Val Tyr Ala Arg Val
170 200           205                     210                     215
173 Gly Ser Leu Arg Thr Tyr Ile Asp Gly Gln Leu
174           220                     225

```

177 <210> SEQ ID NO: 3

178 <211> LENGTH: 27

179 <212> TYPE: DNA

180 <213> ORGANISM: Artificial Sequence

182 <220> FEATURE:

183 <223> OTHER INFORMATION: Primer

186 <220> FEATURE:

W--> 187 <221> NAME/KEY: Primer

188 <222> LOCATION: (1)..(27)

190 <400> SEQUENCE: 3

191 tctaagcttc accatggtca agtttgc

27

194 <210> SEQ ID NO: 4

195 <211> LENGTH: 20

196 <212> TYPE: DNA

197 <213> ORGANISM: Artificial Sequence

199 <220> FEATURE:

200 <223> OTHER INFORMATION: Primer

203 <220> FEATURE:

W--> 204 <221> NAME/KEY: Primer

205 <222> LOCATION: (1)..(20)

207 <400> SEQUENCE: 4

208 tctagtcgct cgagttgcag

20

211 <210> SEQ ID NO: 5

212 <211> LENGTH: 20

213 <212> TYPE: DNA

214 <213> ORGANISM: Artificial

216 <220> FEATURE:

217 <223> OTHER INFORMATION: Primer

220 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,491

TIME: 10:57:25

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

W--> 221 <221> NAME/KEY: Primer
222 <222> LOCATION: (1)..(20)
224 <400> SEQUENCE: 5
225 ctcttcactc ttcaactctc

20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/576,491

DATE: 05/01/2006
TIME: 10:57:26

Input Set : A:\Sequence.ST25.txt
Output Set: N:\CRF4\05012006\J576491.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5

VERIFICATION SUMMARY

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,491

TIME: 10:57:26

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\05012006\J576491.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:187 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3

L:204 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4

L:221 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5